

Patent claims.

1. A streptavidin-binding peptide comprising or consisting of an amino acid sequence according to Seq.-ID 1 - 12.

2. A nucleic acid coding for a streptavidin-binding peptide according to claim 1.

10 3. A plasmid comprising a nucleic acid according to claim 2.

15 4. A method for the production of a streptavidin-binding peptide according to claim 1, wherein a nucleic acid according to claim 2 is expressed or overexpressed in a cell-based or cell-free protein biosynthesis system.

20 5. The use of a streptavidin-binding peptide according to claim 1 for the purification of a defined protein produced in a protein biosynthesis system, wherein a nucleic acid coding for the protein and, connected therewith, for the streptavidin-binding peptide, optionally controlled by a regulatory sequence, is subjected to a transcription and/or translation, wherein a solution comprising the thus obtained translation product is contacted with immobilized

streptavidin, and wherein after separation of the solution with substances not bound to the streptavidin the translation product is released from the streptavidin and eluted.

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6. The use of a streptavidin-binding peptide according to claim 1 for labeling a defined protein, wherein a nucleic acid coding for the protein and, connected therewith, for the streptavidin-binding peptide is subjected to a transcription and/or translation, wherein the thus obtained translation product is contacted with a streptavidin conjugate comprising a reporter molecule and is bound thereto.

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